

ClinicMaster Software

Introduction

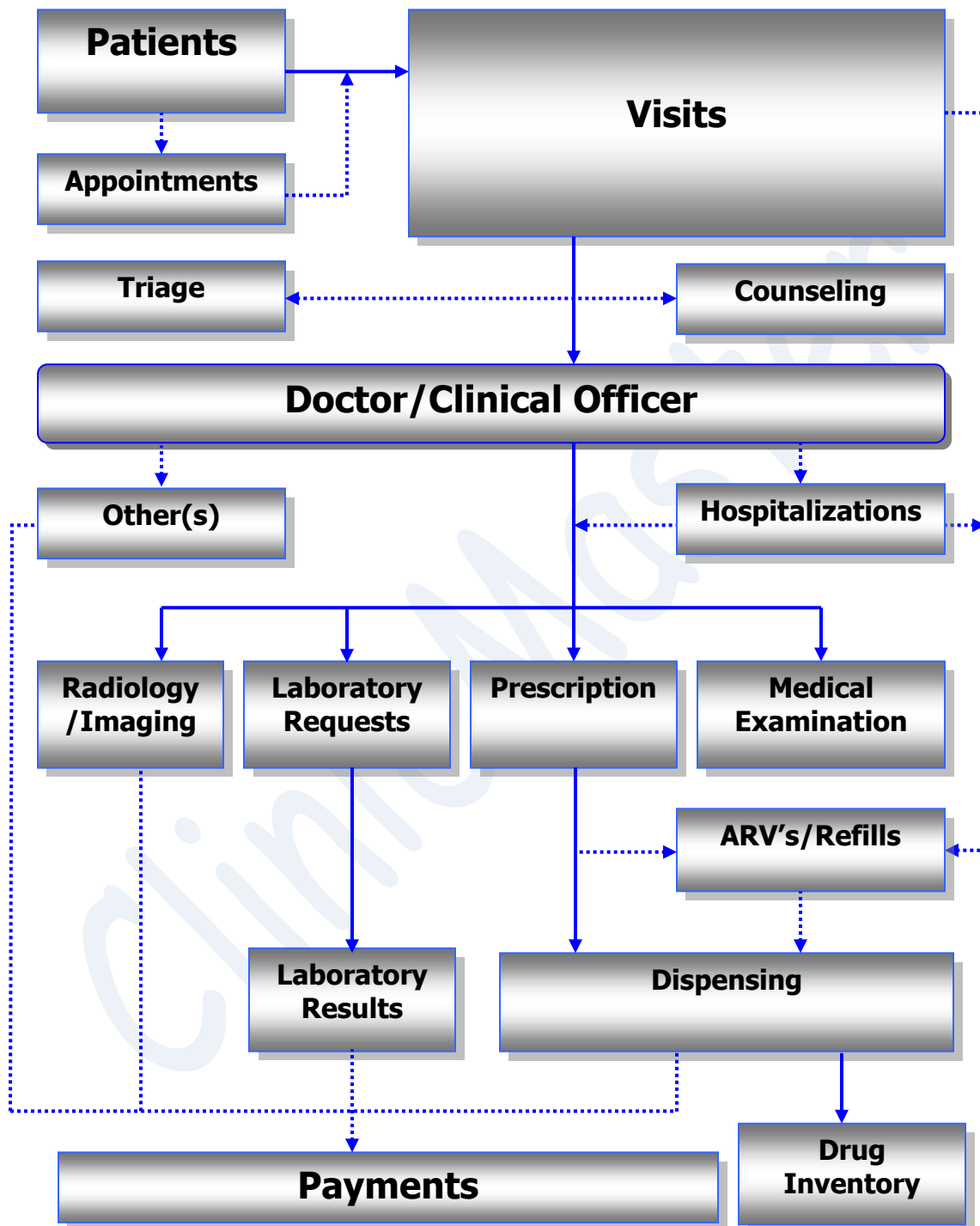
Your clinic is dedicated to a single objective – to provide the best possible care for your patients. Yet the patient experience is very much defined by flow, transportation, environmental services, and other support areas that have a significant effect on patient flow including a patient leaving without being seen and general clinic management. A patient's length of stay depends on effective patient's tracking software and orchestration of their resource plan of care. Length of stay, in turn, has a direct bearing on capacity management and, ultimately, clinic costs and revenues. This and many other issues led to the development of ClinicMaster.

ClinicMaster is an integrated new generation healthcare information management and medical billing software. It automates patients' transactions in the clinic on a visit basis and daily procedures.

Users familiar with Windows® applications will invariably master ClinicMaster in record time leading to an extraordinarily smooth and cost-effective usage and installation.

Background

ClinicMaster was developed by Wilson Kutegeka, a Ugandan talented software developer who is also a Microsoft Most Valuable Professional (MVP) in a major .NET programming language and the first Ugandan to receive such a prestigious award from Microsoft.



Basic diagrammatic representation of key clinical processes

Summary of core modules in ClinicMaster

- Patients' management including Allergies and Deaths
- Appointments Scheduling
- Visits
- Clinical Findings including Illnesses
- Laboratory
- Pharmacy & Drug Inventory
- Procedures
- ART/ARV's Management
- Cash Payments & Accounts Billing
- Services (Consultation & Hospitalization)
- Search Engine, Reports & Business Intelligence
- Security Management
- Other Income & Expenses tracking
- User Options
- Online Help System
- Audit Trail

What's in ClinicMaster (Modules)

1.0 Patients Management

Every new patient that visits the clinic will be registered and given a patient number that is automatically generated by the system. The patient number can be customized to fit the clinic's patient number format and if this number already exists, say from manual files, the system will accept to replace the automatically generated one.

The screenshot displays the ClinicMaster software interface. The top menu bar includes File, Edit, View, Set Up, Reports, Tools, Window, and Help. Below the menu is a toolbar with icons for various modules: Patients, Visits, Triage, Cashier, Doctor, Lab Requests, Lab Results, Pharmacy, Procedures, Appointments, Hospitalizations, Deaths, Allergies, ART Regimen, ART Stopped, and Inventory.

The main window is titled "Search - Patients" and features a "Search Engine" section. The "Patients" module is selected in the left sidebar. The search criteria are set to "Patient No" and "Begins With" 07. The search results are displayed in a table with columns: Patient No, Surname, First Name, Other Name, Join Date, Gender, Photo, Birth Place, Birth Date, Age, Total Visits, First Visit Date, Last Visit Date, and Default Bill Account.

The registration form for a new patient is open, showing the following fields:

- Patient's Number: 09-022027
- Surname: Karungi
- First Name: Grace
- Other Name: Winslet
- Date of Birth: 27 January 1983
- Age: 26
- Gender: Female
- Join Date: 25 October 2009
- Address: P.O Box 7370, Kampala
- Phone Number: +256 (0)772 609113
- Birth Place:
- Occupation:
- E-Mail: info@clinicmaster.net
- Location:
- Default Bill Account No: SIL
- Default Bill Customer Name: SyncSoft INTERNATIONAL LTD
- Enforce Default Bill Account: ☐
- Status: Active

The form includes "Load...", "Clear", "Save", and "Close" buttons. A photo of the patient is displayed next to the form fields.

Below the registration form, a list of existing patients is shown, including:

- 07-000001: Kaleeba, James, Mar 12 2007, Male, Jan 1 1963, 46, 6, Mar 6 2007, Mar 29 2008, CASH
- 07-010001: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022001: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022002: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022003: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022004: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022005: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022006: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022007: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022008: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022009: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022010: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022011: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022012: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022013: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022014: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022015: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022016: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022017: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022018: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022019: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022020: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022021: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022022: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022023: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022024: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022025: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022026: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022027: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022028: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022029: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022030: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022031: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022032: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022033: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022034: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022035: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022036: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022037: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022038: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022039: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022040: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022041: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022042: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022043: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022044: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022045: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022046: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022047: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022048: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022049: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022050: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022051: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022052: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022053: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022054: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022055: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022056: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022057: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022058: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022059: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022060: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022061: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022062: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022063: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022064: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022065: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022066: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022067: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022068: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022069: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022070: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022071: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022072: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022073: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022074: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022075: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022076: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022077: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022078: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022079: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022080: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022081: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022082: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022083: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022084: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022085: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022086: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022087: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022088: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022089: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022090: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022091: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022092: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022093: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022094: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022095: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022096: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022097: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022098: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022099: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH
- 07-022100: Karungi, Grace, Jan 1 1983, 26, 0, Mar 6 2007, Mar 29 2008, CASH

The status bar at the bottom shows: User Name: Wilson Kutegeka | Level: 1 | Server: DEVELOPER | Connection Mode: Windows Authentication | Login Name: JCRC\Wilson | Patients

Screen showing a registration form for new patient

2.0 Visits Tracking

Visits made by new or already registered patient, will be registered and managed by this module. The system will automatically generate a visit number meant for internal use only that helps to track transactions of that visit. Key information to be captured here include Visit Date, Visit Category (Consultation, Follow-up, Referral, Refill, Self Request etc. only Consultation is billable), and Billing information.

The screenshot displays the Clinic Master software interface. The main window is titled "Search - Visits" and shows a list of visits with columns: Visit No, Patient No, Visit Date, Surname, First Name, Other Name, Gender, Age, Join Date, Visit Category, To-Bill Account, Total Bill, Total Paid, Bill Balance, and To-Bill. A modal form titled "Visits" is open, allowing for the registration of a new visit. The form includes fields for Patient's Number, Visit Number, Visit Date, Category, Consultation Fee, To-Bill Mode, To-Bill Account Number, To-Bill Customer Name, and Update Visit Status To. A photo of the patient is also visible. The background shows a list of visits with details such as Patient Name, Visit Date, and Billing Information.

Visit No	Patient No	Visit Date	Surname	First Name	Other Name	Gender	Age	Join Date	Visit Category	To-Bill Account	Total Bill	Total Paid	Bill Balance	To-Bill
08-022069-004	08-022069	Sep 28 2008	Nanyonjo	Hellen		Female	16	May 12 2008	Refill	CT	43.20		43.20	CHARC
08-022058-003	08-022058	Sep 14 2008	Kadoma	Gilbert		Male	25	Jun 24 2008	Refill	CT	1,484.70		1,484.70	CHARC
08-022077-013	08-022077	10 October 2008								CASH	9.35		9.35	Cash C
										CASH	6.35		6.35	Cash C
										CASH	6.35	6.35		Cash C
										SIL	41.14		41.14	SyncSi
										SIL	38.63		38.63	SyncSi
										CASH				Cash C
										CASH	6.35	6.35		Cash C
										CASH	6.35	6.35		Cash C
										CASH	35.35	35.35		Cash C
										CASH	26.88	26.88		Cash C
										CT	10.29		10.29	CHARC
										CT	6.35	6.35		CHARC
										CT	45.60	45.60		CHARC
										SIL	67.48		67.48	SyncSi
										CT	6.35	6.35		CHARC
										CASH	15.47	15.47		Cash C
										CT	7,197.30	7,197.30		CHARC
										CASH	131.30	131.30		Cash C
										CT	513.29	513.29		CHARC
										CT	116.18	116.18		CHARC
										CT	1,484.70		1,484.70	CHARC
										CASH	21.03	21.03		Cash C
										CT	3,556.34	3,556.34		CHARC
										CASH	97.96	6.35	91.61	Cash C

Screen showing visits registration form

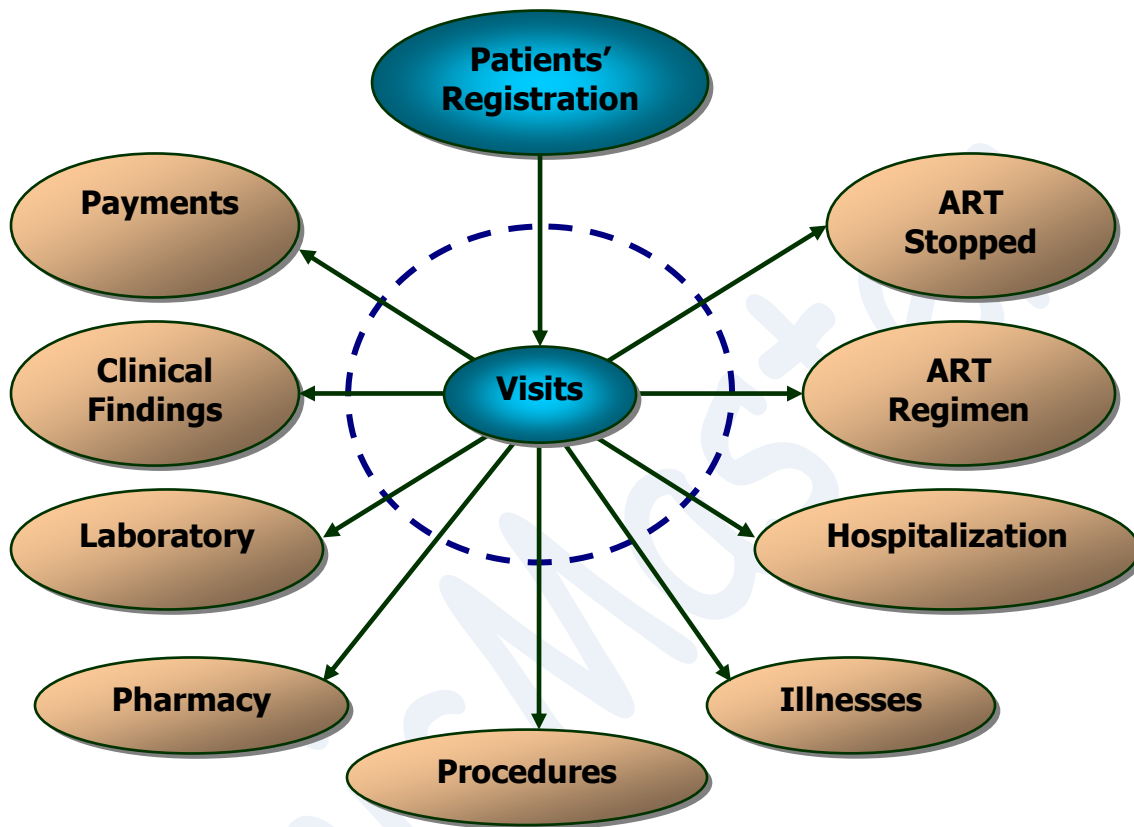


Diagram showing a summary of some of the transactions tracked on a visit basis.

2.1 Clinical Findings

On a visit basis, data captured under clinical findings include

- Patients History
- Physical Examination
- General Appearance
- Clinical Diagnosis etc.

2.2 Laboratory

As the lab test is requested by the clinician, it will be automatically sent to the bleeding room or to where a sample is received from the patient from however, if the visits bill mode is cash, the patient will be required to pay first. At bleeding room, the system will automatically generate a specimen number that can be replaced by the Lab Technologist. Once the specimen number is confirmed, the lab test requested will be automatically sent to the lab for feeding laboratory results later and printing attractive reports. Once results are entered into the system, a bill is also sent to the to-Bill account if the visit's bill mode is Account.

Lab Requests

Visit No. 08-022077-012 Patient's No. 08-022077 Age 20
 Primary Dr. (Staff) Locum Doctor -> LDR To-Bill Account No. BIL Status See Doctor
 Visit Date 10 October 2008 Patient's Name Karungi Winslet Grace
 Bill for Laboratory

Lab Results

Specimen No. 08-022077-14 Visit Date 10 October 2008 Age 20
 Specimen Description Blood and Urine Patient's Name Karungi Winslet Grace Status See Doctor
 Drawn By (Staff) M W -> P01
 Drawn Date and Time 10 Oct 2008 09:45 AM
 Bill for Laboratory

Lab Results EXTRA

Sub Test Name	Normal Range	Result	Unit Measure	Report	Saved
HCT	34-52	42	Percentage		<input checked="" type="checkbox"/>
HGB	12-18	19	GRMS/dl		<input checked="" type="checkbox"/>
PERCENTAGE LYMPHS	20-45	25	Percentage		<input checked="" type="checkbox"/>
MCV	82-97	90	fl		<input checked="" type="checkbox"/>
PERCENTAGE MONOS	4-11	6	Percentage		<input checked="" type="checkbox"/>
PLT	150-550	250	thsd/mm3		<input checked="" type="checkbox"/>
RBC	4.2-6.1	5.9	mill/mm3		<input checked="" type="checkbox"/>
WBC	3.5-11	8	thsd/mm3		<input checked="" type="checkbox"/>

User Name: Wilson Kutegeka Level: 1 Server: DEVELOPER Connection Mode: Windows Authentication Login Name: JCRCO\Kutege Lab Results

Screen showing the laboratory requests, automatically generated specimen number to be confirmed by the Lab Technologist and lab results entry forms.

2.3 Pharmacy

Once a doctor prescribes, medication will automatically show in the pharmacy for dispensing. However, if the visit's bill mode is cash; the patient will need to pay first before picking medication from pharmacy. When pharmacy dispenses, two things happen. A bill is sent to the to-Bill account if visits bill mode is account and internally the drug inventory will be reduced by the quantities of the drugs issued.

Pharmacy

Visit No. 08-022077-012 Patient's No. 08-022077 Age 20
 Full Name Karungi Winslet Grace Status See Doctor
 Visit Category Consultation Gender Female
 Join Date 24 July 2008 Bill Mode Account

Issue Date 10 October 2008
 To-Bill Account No SIL
 Visit Date 10 October 2008
 Bill for Prescription 98.40 Bill in Words NINETY EIGHT point FOUR

Include	Drug No	Drug Name	Quantity	Unit Measure	Unit Price	Amount	Formula
<input checked="" type="checkbox"/>	M 0077	PARACETAMOL TAB 500MG	30	NA	2.28	68.40	2*3
<input checked="" type="checkbox"/>	M 0314	ALBENDAZOLE TAB 400MG	20	NA	1.50	30.00	2*2

Screen showing doctor's prescription and dispensing forms

2.4 Procedures

Just like for prescriptions, the doctor will request for the procedure, and if the visit's bill mode is cash, the patient will need to first pay before the procedure is offered. Once the procedure is offered, the bill is sent to the to-Bill account if the visit's bill mode is account.

2.5 Illnesses

For any visit, Illnesses developed can be captured under this module

2.6 Hospitalization

If there is any hospitalization, it will be managed by this module. Entry Date will need to be captured and release date can be entered at a later date when the patient is discharged. A bill will be sent for both visit's bill modes (cash or Account) on confirming the release date when patient is discharged.

2.7 ART Regimen

For patient's who are receiving ARV's, the doctor will need to register ART Regimen on a given visit, such that for subsequent visits where patients need only to pick drugs, after registering a visit, the patient will go straight to pharmacy to pick ARV's in this case, the visit category will have to be indicated as refill. Those with visit's bill mode set as cash, will need to pay first and those whose bill mode is account, will have a bill sent to the to-Bill account after drugs are dispensed.

The screenshot displays the ClinicMaster software interface. The main window is titled "Search - ART Regimen". It features a search engine with various filters and a table of results. The table has columns for Visit No, Patient No, Gender, Age, Join Date, Start Date, Combination, Drug Line, WHO Stage, ART Category, ART Status, Refill Duration (Days), and Why Eligible. Two rows of data are visible.

Visit No	Patient No	Gender	Age	Join Date	Start Date	Combination	Drug Line	WHO Stage	ART Category	ART Status	Refill Duration (Days)	Why Eligible
00-4193NJ-001	00-4193NJ	Female	28	Mar 9 2006	Aug 9 2007	D4T+3TC+EFV	First Line	Stage IV	Starting	Stopped	0	Clinical only
0045075TJ-001	0045075TJ	Female	52	Oct 5 2006	Oct 4 2006	D4T+3TC+NVP	First Line	Stage II	Starting	On	30	CD4 PCT, Clinical

Below the table, there are two main forms: "ART Regimen" and "ART Stopped".

ART Regimen Form:

- Visit No: 08-022087-001
- Combination: D4T+3TC+EFV
- Start Date: 10 February 2008
- WHO Stage: Stage II
- Drug Line: First Line
- Doctor (Staff): Locum Doctor -> LDR
- ART Category: Starting
- Why Eligible: ☒ CD4 PCT, ☒ Clinical only, ☐ TLC
- Refill Duration (Days): 14
- Patient's No: 08-022087
- Full Name: Kuto John
- Visit Category: Consultation
- To-Bill Account No: CT
- Notes: (Empty)
- Checkboxes: ☐ Toxicity/side effects, ☐ Virologic failure, ☐ Pregnancy, ☐ Risk of pregnancy

ART Stopped Form:

- Visit Number: 08-022087-001
- Visit Date: 10 February 2008
- Last Visit Date: 20 August 2008
- Patient's Number: 08-022087
- Patient's Name: Kuto John
- Combination: D4T+3TC+EFV
- Start Date: 10 February 2008
- Stop Date: 20 August 2008
- ART Stop Reason(s): ☒ Treatment failure, ☐ Toxicity/side effects, ☐ Pregnancy, ☐ Poor adherence, ☐ Illness hospitalization, ☐ Drugs out of stock
- Doctor (Staff): Locum Doctor -> LDR

At the bottom of the screen, there is a status bar showing the user name "Wilson Kutegeka", level "1", server "DEVELOPER", connection mode "Windows Authentication", login name "JCRCOKutege", and the current form "ART Stopped".

Screen showing ART Regimen and ART Stopped registration forms

2.8 Cash Payments

This will assist the cashier receive cash payment and issue a receipt to the patient who is paying cash. The receipt number is automatically generated but can be replaced by the cashier just like most other auto-generated numbers. Under this module, a discount can be offered on an item basis.

Clinic Master

File Edit View Set Up Reports Tools Window Help

Patients Visits Cashier Doctor Lab Requests Lab Results Pharmacy Procedures Appointments Hospitalizations Deaths Allergies ART Regimen ART Stopped Inventory

Search - Cash Payments

Search Engine

Columns Filter: Simple Set Filter Look In: Receipt No Like (use * for all)

Search Calculation: Total Amount Paid = 46,103.34 Print Export To Row: 1 of 89

Receipt No	Pay Date	Visit No	Patient No	Pay Mode	Document No	Amount Paid	Amount in Words	Notes	Login ID	Record Date	Record Time
08000008	Sep 7 2008	071538001	071538	Cash		6.35	SIX point THREE FIVE		Kutegz	Sep 7 2008	12:23:00
00084	Sep 3 2008	08-022078-006	08-022078	Cash		6.35	SIX point THREE FIVE		Kutegz	Sep 3 2008	11:40:00

Cashier

Cash Payment Bulk Payment Account Deposits Other Income Expenditure

Visit No. 08-022078-004 Document No. 0096 Amount in Words NINETY ONE point SIX ONE

Name Kahunde Nyakaa Lillian Notes

Visit Date 1 August 2008

Receipt No. 08000008

Pay Date 01 August 2008 Total Bill 91.61

Mode of Payment Cash

Payment Details

Include	Item Code	Item Name	Category	Quantity	Unit Price	Discount	Amount
<input checked="" type="checkbox"/>		Dressing a wound	Procedure	1	0.12	0.00	0.12
<input checked="" type="checkbox"/>	EREA	UREA	Test	1	5.20	0.00	5.20
<input checked="" type="checkbox"/>	HIVRAPID	HIV RAPID TEST	Test	1	7.55	0.00	7.55
<input checked="" type="checkbox"/>	HDS	Hospitalization	Service	5	2.65	0.00	13.25
<input checked="" type="checkbox"/>	M 0077	PARACETAMOL TAB 500MG	Drug	20	2.28	0.00	45.60
<input checked="" type="checkbox"/>	M 0314	ALBENDAZOLE TAB 400MG	Drug	12	1.50	0.00	18.00
<input checked="" type="checkbox"/>	URNCHM	URINE CHEMISTRY	Test	1	1.89	0.00	1.89

☒ Print Receipt On Saving

Save Print Close

00084 Apr 2 2008 07-022062-003 07-022062 Cash 230.55 TWO HUNDRED THIRTY point FIVE

0800001 Apr 1 2008 08-022065-003 08-022065 Cash 230.55 TWO HUNDRED THIRTY point FIVE

Select Top: 100 Percent Sort: Descending By: Pay Date 89 Records returned for Cash Payments

User Name: Wilson Kutegeka Level: 1 Server: DEVELOPER Connection Mode: Windows Authentication Login Name: JCR/C0/Kutegz Cashier

Screen for cash payments

3.0 Bulk Payments

This module will assist cashier receive payment from the to-Bill customer and be able to see the items that are charged for. When payment is received, the account of the to-Bill customer will be credited with the amount paid.

Cashier

Cash Payment Bulk Payment Account Deposits Other Income Expenditure

To-Bill Account Number: SIL Mode of Payment: Cash Amount in Words: THREE HUNDRED FIFTY FOUR point FIVE EIGHT

To-Bill Customer Name: SyncSoft INTERNATIONAL LTD Document No.: Total Amount: 354.58

Pay Date: 10 October 2008 Total Discount: 0.00

Transaction No: 001304 Total Bill: 354.58

Account Balance: -103.80

Bulk Pay Details

Include	Visit Number	Visit Date	Item Code	Item Name	Category	Quantity	Unit Price	Discount	Amount
<input checked="" type="checkbox"/>	071363001	Oct 10 2008	10C	Consultation	Service	1	6.35	0.00	6.35
<input checked="" type="checkbox"/>	071366001	Feb 12 2008	10C	Consultation	Service	1	6.35	0.00	6.35
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	10C	Consultation	Service	1	6.35	0.00	6.35
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	CBC	COMPLETE HAEMAGRAM	Test	1	5.29	0.00	5.29
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	HIVRAPID	HIV RAPID TEST	Test	1	7.55	0.00	7.55
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	M 0077	PARACETAMOL TAB 500MG	Drug	20	2.28	0.00	45.60
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	M 0314	ALBENDAZOLE TAB 400MG	Drug	15	0.00	0.00	0.00
<input checked="" type="checkbox"/>	08-022077-004	Aug 19 2008	M&I 6RI&6	M&I 6RI&6 SMF&R	Test	1	2.69	0.00	2.69

☒ Print Receipt On Saving

Save Print Close

001251 CHARGE TREAT ... Aug 4 2008 Debit 4.00 FOUR 46,123.59 Charge for test: CL, done to Patient No: 08022078 and Specimen No: 08022078

001252 CHARGE TREAT ... Aug 4 2008 Debit 25.00 TWENTY FIVE 46,098.59 Charge for test: VIRALCULTUREISOLATE, done to Patient No: 08022078

Select Top: 100 Percent Sort: Not Sorted By: 1000 Records returned for Accounts (Up to 1000 by default)

User Name: Wilson Kutegeka Level: 1 Server: DEVELOPER Connection Mode: Windows Authentication Login Name: JCR001Kutegeka Cashier

Screen showing the bulk payment form

4.0 Accounts

Customers such as Insurance Companies or Families that can be offered credit services will be registered in the To-Bill Customers and given an account number that is managed by this module. In case the to-Bill customer deposits in advance, her account will be credited with the amount deposited.

The screenshot displays the Clinic Master software interface. The main window is titled 'Search - Accounts' and shows a list of transactions. Overlaid on this is the 'To-Bill Customers' form, which is used for recording deposits from customers who are billed later.

Transaction List (Visible in Background):

Transaction No	Account Name	Transaction Date	Account Action	Amount	Amount in Words	Balance	Notes
001303	SyncSoft INTERN...	Oct 10 2008	Debit	6.35	SIX point THREE FIVE	-103.80	Charge for consultation offered to Visit No: 08022077012
001295	SyncSoft INTERN...	Oct 7 2008	Debit	6.35	SIX point THREE FIVE	-43.75	Charge for consultation offered to Visit No: 08022078008
001296	SyncSoft INTERN...	Oct 7 2008	Debit	45.60	FORTY FIVE point SIX	-89.35	Charge for drug(s): PARACETAMOL TAB 500MG, issued to Visit No: C
001297	SyncSoft INTERN...	Oct 7 2008	Debit	8.10	EIGHT point ONE	-97.45	Charge for drug(s): MAGNESIUM TRISIL GEL, issued to Visit No: 0802

To-Bill Customers Form (Foreground):

Cashier | Cash Payment | Bulk Payment | **Account Deposits** | Other Income | Expenditure

Transaction No: 001304
 Account No: SIL
 Account Name: SyncSoft INTERNATIONAL LTD
 Deposit Date: 10 October 2008
 Mode of Payment: Cash
 Credit: 8,000.00
 Debit:
 Balance: 7,896.20
 Document No:
 Notes:

☒ Print Receipt On Saving | **Print** | **Save** | **Close**

To-Bill Customers

Account Number: SIL
 To-Bill Customer Name: SyncSoft INTERNATIONAL LTD
 To-Bill Customer Type: Institution
 Contact Person: Commercial Director
 Address: P.O Box 7370, Kampala
 Phone Number: +256 773 701733

Buttons: Search, Update, Delete, Close

Status Bar: User Name: Wilson Kutegeka | Level: 1 | Server: DEVELOPER | Connection Mode: Windows Authentication | Login Name: JCRCO\Kutegeka | To-Bill Customers

Screen showing a deposit form

5.0 Appointments

Those patients with scheduled visits will be managed by this module. The system will ensure that these appointments do not overlap and will always present those that are meant to visit that day, remaining days to visit, as well as showing those who miss their appointments. The system will maintain visit states automatically such as Waiting, Visited or Missed depending upon whether the patient visits or not.

The screenshot displays the ClinicMaster software interface. The top menu bar includes File, Edit, View, Set Up, Reports, Tools, Window, and Help. Below the menu is a toolbar with icons for Patients, Visits, Cashier, Doctor, Lab Requests, Lab Results, Pharmacy, Procedures, Appointments, Hospitalizations, Deaths, Allergies, ART Regimen, ART Stopped, and Inventory. The main window is titled 'Search - Appointments' and features a search engine on the left and a list of appointments on the right.

Search Engine:

- Columns: Filter: Simple
- Search: Calculation: None
- Print, Export To, Row: 1 of 49

Appointment List:

Patient No	Start Date	Precision	Start Time	Duration (Min)	End Date	Status	To-Visit Today	Remaining Days	Doctor	Description	Login ID	Record Date
08-022077	12/02/2009	Exact	03:00 PM	45	12/02/2009	Waiting	<input type="checkbox"/>	125	S Kizio	Followup	Kutegz	Oct 7 2008
08-022058	06/11/2008	Range			06/11/2008	Waiting	<input type="checkbox"/>	27	Ahimbi...	Drug Refill	Kutegz	Oct 7 2008
08-022058	03/11/2008	Range			03/11/2008	Waiting	<input type="checkbox"/>	24	Ahimbi...	Drug Refill	Kutegz	Oct 4 2008
08-022058						Waiting	<input type="checkbox"/>	15	Ahimbi...	Followup	Kutegz	Oct 7 2008
07-022058						Waiting	<input type="checkbox"/>	10	Locum...	Routine checkup	Kutegz	Oct 7 2008
08-022058						Waiting	<input checked="" type="checkbox"/>	0	W. TA...	Monitoring	Kutegz	Oct 7 2008
08-022058						Waiting	<input checked="" type="checkbox"/>	0	A Muh...	Drug Refill	Kutegz	Oct 7 2008
00450						Missed	<input type="checkbox"/>		BUKU...	Drug Refill	Kutegz	Jul 31 2008
05-000						Missed	<input type="checkbox"/>		BUKU...		Kutegz	
05-000						Missed	<input type="checkbox"/>		KOBU...			
05-000						Missed	<input type="checkbox"/>		Mukos...	Routine checkup	Admin	
06-000						Missed	<input type="checkbox"/>		BUKU...			
06-000						Missed	<input type="checkbox"/>		KOBU...			
06-12						Missed	<input type="checkbox"/>		Kaban...	General routine		
07-000						Missed	<input type="checkbox"/>		Doctor...	Routine Checkup	Kutegz	Mar 28 2008
07-000						Missed	<input type="checkbox"/>		Doctor...	Routine Checkup		
07-000						Missed	<input type="checkbox"/>		BUKU...	Routine checkup		
07-000						Missed	<input type="checkbox"/>		Musim...			
07-022						Missed	<input type="checkbox"/>		Mukos...	Routine checkup	Will	
07-022						Missed	<input type="checkbox"/>		Doctor...	General checkup		
07-022						Visited	<input type="checkbox"/>		Doctor...	General checkup		
07-022						Missed	<input type="checkbox"/>		Doctor...	Routine checkup		
07-022						Missed	<input type="checkbox"/>		Doctor...	General checkup		
07-022065	20/08/2007	Range			27/08/2007	Missed	<input type="checkbox"/>		Aruo V...	General Checkup		
07-022066	09/04/2007	Range			09/04/2007	Missed	<input type="checkbox"/>		KYDKI...	For follow up por...		
07-022067	08/06/2007	Range			08/08/2007	Missed	<input type="checkbox"/>		Doctor...	For follow up pur...		

Select Top: 100 Percent Sort: Not Sorted By: 49 Records returned for Appointments (Up to 1000 by default)

User Name: Wilson Kutegeka Level: 1 Server: DEVELOPER Connection Mode: Windows Authentication Login Name: JCR001Kutegz Appointments

Screen showing appointment scheduling form

6.0 Inventory

This module manages the flow of drugs. Generally, as drugs are issued, stock is reduced, and as drugs are received, stock is increased.

The screenshot displays the Clinic Master software interface. The main window shows a list of inventory transactions with columns for Transaction ID, Drug No, Drug Name, Transaction Date, Stock Type, Quantity, Balance, Details, Login ID, Record Date, and Record Time. An 'Inventory' form is open over the list, allowing for data entry. The form includes fields for Drug Number (M 0077), Drug Name (PARACETAMOL TAB 500MG), Unit of Measure (NA), Transaction Date (10 October 2008), Stock Type (Received), Quantity (8000), Balance (15940), and a 'Details' section for 'Drugs Received'. The 'Checked By' field is set to 'Kutegz'. The background list shows various transactions for ABACAVIR and PARACETAMOL.

Transaction ID	Drug No	Drug Name	Transaction Date	Stock Type	Quantity	Balance	Details	Login ID	Record Date	Record Time
1	M 0060	ABACAVIR (ZIAGEN) SYR ...	Oct 21 2006	Received	9000	9000	Stock received	Admin		
2	M 0060	ABACAVIR (ZIAGEN) SYR ...	Oct 21 2006	Issued	78	8922	Drug(s) Issued to Visit No: 06059749001	Admin		
12	M 0060	ABACAVIR (ZIAGEN) SYR ...	Oct 25 2006	Issued	20	8902	Drug(s) Issued to Visit No: 052565NR0...	Admin		
30	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 010609NAO...	Admin		
64	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 07022064001	Admin		
74	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 07022062003	Admin		
94	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 07022061001	Admin		
95	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 07022062002	Admin		
118	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 08022063001	Admin	Jun 26 2008	16:58:00
175	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 08022067001	Admin	Jun 26 2008	17:07:00
181	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 08022066001	Kutegz	Aug 12 2008	11:06:00
235	M 0060	ABACAVIR (ZIAGEN) SYR ...					Visit No: 08022077002	Kutegz	Jul 31 2008	13:27:00
225	M 0017	ABACAVIR TAB 300MG					Visit No: TC070443L...	Admin	Jun 27 2008	17:37:00
200	M 0017	ABACAVIR TAB 300MG					Visit No: 000013LF2...	Admin	Jun 27 2008	17:50:00
206	M 0017	ABACAVIR TAB 300MG					Visit No: 08022071002	Admin	Jun 26 2008	17:42:00
185	M 0017	ABACAVIR TAB 300MG					Visit No: 08022070001	Admin	Jun 27 2008	14:18:00
191	M 0017	ABACAVIR TAB 300MG					Visit No: 08022086002	Kutegz	Aug 12 2008	11:25:00
237	M 0017	ABACAVIR TAB 300MG					Visit No: 08022086003	Kutegz	Aug 12 2008	11:32:00
240	M 0017	ABACAVIR TAB 300MG					Visit No: 08022086004	Kutegz	Aug 12 2008	11:34:00
243	M 0017	ABACAVIR TAB 300MG					Visit No: 08022086005	Kutegz	Aug 12 2008	11:39:00
246	M 0017	ABACAVIR TAB 300MG								
98	M 0017	ABACAVIR TAB 300MG	May 15 2007	Issued	300	9060	Expired Drugs	Admin		
90	M 0017	ABACAVIR TAB 300MG	Apr 14 2007	Issued	60	9360	Drug(s) Issued to Visit No: 07000001004	Admin		
103	M 0017	ABACAVIR TAB 300MG	Dec 28 2007	Issued	12	9048	Drug(s) Issued to Visit No: 07022062003	Kutegz		
153	M 0017	ABACAVIR TAB 300MG	Jun 26 2008	Issued	30	9018	Drug(s) Issued to Visit No: 07022066004	Admin	Jun 26 2008	16:35:00
163	M 0017	ABACAVIR TAB 300MG	Jun 26 2008	Issued	30	8988	Drug(s) Issued to Visit No: 07022066003	Admin	Jun 26 2008	16:42:00

Screen showing drugs stock registration form

7.0 Deaths

If there are any deaths, they'll be managed by this module. If a death is registered, the system will internally change the patient's status to deceased, a visit can not be registered for a patient whose status is deceased.

8.0 Allergies

Those patients, who are allergic to certain drugs, will be managed by this module. A prescription of a drug where the patient is registered to be allergic to it will not be prescribed to that patient in the system.

9.0 Other Income

This is one of the extras modules in the system; its purpose is to track other income such as donations, etc that may be received.

10.0 Expenses

This is also another extra in the system, which tracks expenses.

Other Salient Features Include

11.0 Security Management

Security in the system is managed by means of registering users, who in turn are given roles that control access rights to the system in terms of write, read, update and delete. The system has a couple of in-built roles such as Administrator, Cashier, Doctor, Security, Guest, Setup and Transactional. However, a user with create role right, can create other custom roles. If a logged on user has no required access right on a given item, it will be disabled.

The screenshot displays the ClinicMaster Software interface with two windows open: 'Users' and 'Roles'.

Users Window: The 'Logins' tab is active. It shows a table with columns: Login ID, Name, Level, and Status. The first row is 'Admin', 'System Administrator', '1', and 'Active'. Below the table are buttons for 'Save', 'Search', 'Update', 'Delete', 'Change Password...', and 'Refresh'.

Roles Window: The 'Role Name' is 'Administrator'. The 'Description' is 'This role has rights to access all objects in the system'. Below is a table for 'Assign Rights' with columns: Object, Type, Write, Read, Update, and Delete. The table lists various system objects and their access rights for the Administrator role.

Object	Type	Write	Read	Update	Delete
Accessed Services	View	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Accounts	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Allergies	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Appointments	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ART Regimen	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ART Reg. Details	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ART Stopped	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Audit Trail	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Backup Database	Form	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
To-Bill Customers	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bulk Pay. Details	Table	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

At the bottom of the Roles window, there are buttons for 'Add New', 'Update', 'Search', 'Delete', '<<First', '<Previous', 'Record: 1 of 8', 'Next', 'Last>>', and 'Close'.

Screen showing roles and user registration form with a tab where a role is assigned from. Note that the logged in user has a role with limited access rights and that's why most of the items are disabled (grayed out).

12.0 Search Engine, Reports & Business Intelligence

The search engine is perhaps one powerful tool in the system that can be filtered to simple (default) or advanced. With it, one can search almost all the data that is entered into the system with fields that are a result of intelligent calculations to provide for Business Intelligence, if set to advanced, then the user can set multiple search criteria, to search for values from multiple fields. After search results are returned, one can do additional calculations such as totals, averages etc where applicable. The search engine is also a tool to provide for various reports and path from clinical data to treatment knowledge. The data can also be exported to ones favorite application such as excel for additional analysis.

The screenshot displays the Clinic Master software interface. The main window is titled "Search - Doctor-Laboratory" and shows a list of search results. An "Advanced Search Filter" dialog box is open, allowing the user to define search criteria. The dialog box includes a "Look In:" dropdown set to "Visit Date", a "Between" range selector, and a "Multiple Condition" section with a text area containing the following SQL query:

```
(dbo.GetAge(Patients.BirthDate, getDate()) < '18')
AND NOT (dbo.GetLookupDataDes(Patients.Gender[D] = 'Female')
AND (VisitDate Between '01 January 2006' And '30 September 2008'))
```

The search results table shows columns for Patient No, Visit No, Visit Date, Gender, Age, Join Date, Test Name, Quantity, Unit Price, Amount, Item Status, Pay Status, To-Bill Customer, and Last Update. The results are filtered to show visits between January 1, 2006, and September 30, 2008, for patients under 18 years old who are not female.

Screen showing Doctor-Prescription as returned by the search engine and a form where advanced search filter can be set from

13.0 Online Help System

The system has an online help system that can be used as reference while using the system.

14.0 Options

This allows you set user options such as locking automatically generated numbers like patient number if one wants not to accidentally replace what the system has generated, system number of decimal places or systems currency etc.

15.0 Data Backup and Restore tool

This will help the user to make routine backups with ease; you can set the system to do routine backup automatically. The data can easily be restored from within the system.

16.0 Audit Trail

The system keeps a comprehensive Audit Trail that monitors updates, deletions, active users with their activity status etc. In case of accidental deletions or updates by users who have those rights, the deleted or updated entries can be restored. You can only equate the Audit Trail to a recycle bin or Trash, but then the recycle bin doesn't yet care about updates.

Data that the Audit Trail logs include

- Audit Action (Delete or Update)
- Item (such as Patients or Visits)
- Login ID
- Client Machine
- User ID (server user)
- Action Date
- Action Time
- Column Name
- Original Value
- New Value (Update only)

ClinicMaster is highly customizable, can be used on a standalone computer or on a network serving multiple requests by any healthcare provider.

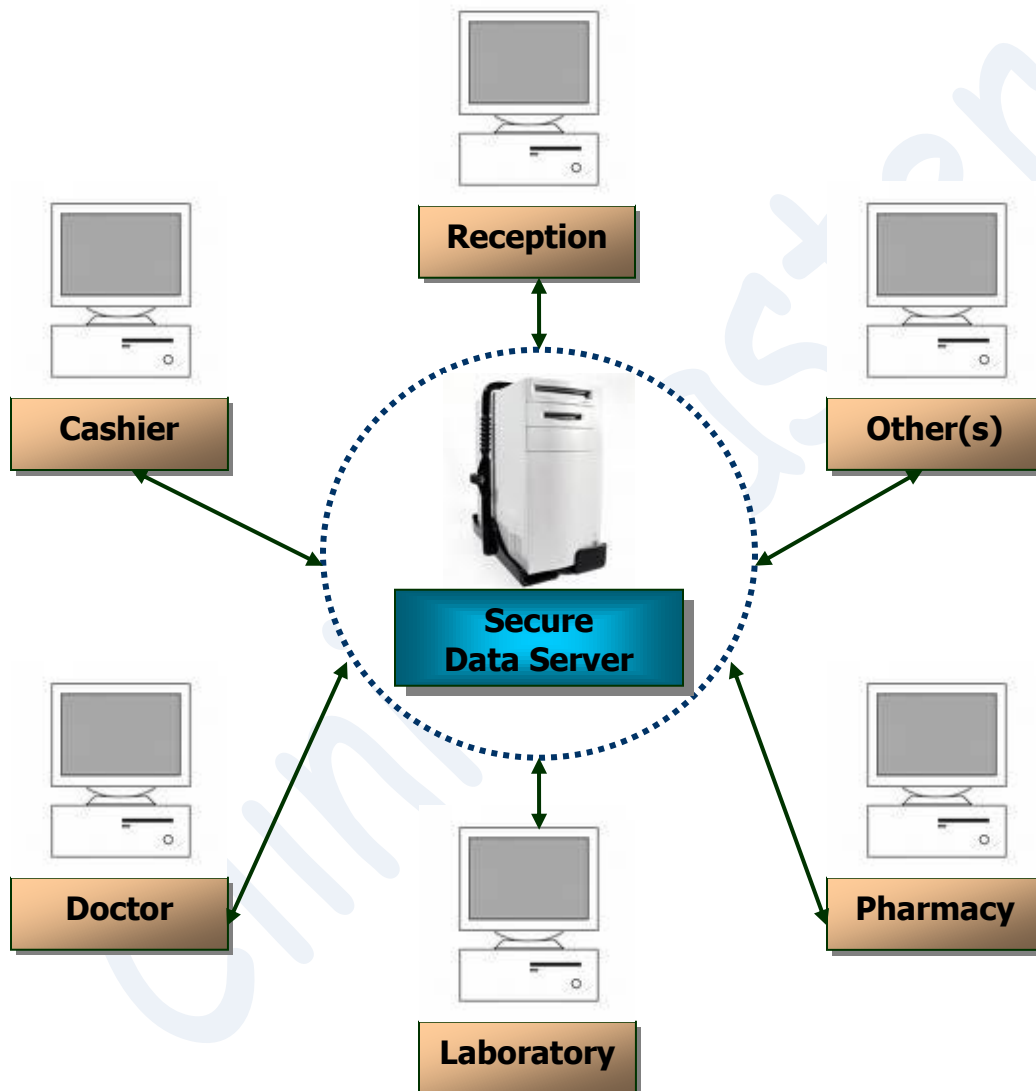


Diagram showing networked operational environment for user departments

For additional Information Contact

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